**Summary of Fix for Installing Node.js and npm Using NVM on Windows**

**Issue:**

* You were unable to install or use node and npm properly, despite having node installed. The npm command was not working correctly.

**Steps Taken to Resolve the Issue:**

1. **Ensure Correct NVM Configuration**:
   * You correctly installed **NVM** (Node Version Manager) and set the root path for it to C:\Users\hinnawe.ali\AppData\Roaming\nvm.
   * Ensured settings.txt was configured properly in the NVM directory.
2. **Install Node.js Using NVM**:
   * Installed Node.js version 18.16.0 using nvm install 18.16.0 command.
   * Switched to that version with nvm use 18.16.0.
3. **Link Node.js Directory**:
   * In some cases, a symbolic link was created (using mklink command) to make sure that Node.js binaries were in a location where they could be accessed properly, such as C:\Program Files\nodejs or C:\Users\hinnawe.ali\nodejs.
4. **Fix Missing npm**:
   * Ensured that **npm** was correctly installed alongside Node.js.
   * In some cases, npm was missing, and the issue was fixed by reinstalling npm globally using:

powershell

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npm install -g npm

1. **Ensure PATH Configuration**:
   * Made sure the correct paths were added to the system’s environment variables, specifically the directory where Node.js and npm are installed (C:\Users\hinnawe.ali\nodejs).
2. **Verify Installation**:
   * Verified Node.js and npm versions by running:

powershell

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node -v

npm -v

* + If everything is configured correctly, the commands should return the installed versions.

**How to Install Node.js and npm in the Future Using NVM:**

1. **Install NVM**:
   * Download and install **NVM** from [NVM for Windows GitHub](https://github.com/coreybutler/nvm-windows/releases" \t "_new).
   * Extract it to a directory of your choice, such as C:\Users\<your-username>\AppData\Roaming\nvm.
2. **Set Up Environment**:
   * Ensure settings.txt is created inside the NVM directory.
   * Set the root to a location like C:\Users\<your-username>\AppData\Roaming\nvm and ensure the proper version of Node.js is being used by adding it to the environment PATH.
3. **Install Node.js Version**:
   * Run the following command to install a specific version of Node.js:

powershell

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nvm install <version>

Example:

powershell

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nvm install 18.16.0

1. **Use the Installed Version**:
   * After installation, activate the version with:

powershell

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nvm use 18.16.0

1. **Verify**:
   * Ensure that both node and npm are installed correctly:

powershell

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node -v

npm -v

By following this process, you'll be able to install any version of Node.js and npm without issues.

**Important Notes:**

* **NVM** allows you to manage multiple versions of Node.js easily.
* You can switch between Node.js versions with nvm use <version>.
* Be sure to always verify that both node and npm are available in the PATH.

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